

|   |      |   |      |                                     |       |                               |                                 |
|---|------|---|------|-------------------------------------|-------|-------------------------------|---------------------------------|
| INFORMATION DISCLOSURE CITATION<br>(Use several sheets if necessary)  |      |   |      |                                     |       | DOCKET NO.:<br>MCS-031-03     | SERIAL NO.:<br>10/627,048       |
|   |      |   |      |                                     |       | INVENTOR:<br>Tashev           |                                 |
|   |      |   |      |                                     |       | FILING DATE:<br>July 25, 2003 | GROUP:<br>Unknown               |
| U.S. PATENT DOCUMENTS   |      |   |      |                                     |       |                               |                                 |
| Examiner<br>Initials<br>Final Search<br>Date  | Ref. | Document Number   | Date | Name                                | Class | Subclass                      | Filing Date<br>(If Appropriate) |
| FOREIGN PATENT DOCUMENTS  |      |   |      |                                     |       |                               |                                 |
|   |      | Document Number   | Date | Country                             | Class | Subclass                      | Translation<br>Yes No           |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)  |      |   |      |                                     |       |                               |                                 |
| BTP   | A1   | Feder, M., and E. Weinstein, Parameter estimation of superimposed signals system using EM algorithm, <i>IEEE Trans. Acoustic, Speech and Sig. Proc.</i> , vol. ASSP-36, 1988, pp. 477-490.                      |      |                                     |       |                               |                                 |
|   | A2   | Nordholm, S., I. Claesson, M. Dahl, Adaptive microphone array employing calibration signals. An analytical evaluation, <i>IEEE Trans. on Speech and Audio Processing</i> , vol. 7 no. 3, May 1999, pp. 241-252. |      |                                     |       |                               |                                 |
|   | A3   | Seltzer, M., B. Raj, Calibration of microphone arrays for improved speech recognition, <i>Mitsubishi Research Laboratories</i> , TR-2002-43, December 2001.   |      |                                     |       |                               |                                 |
|   | A4   | Teutsch, H., and G. Elko, An adaptive close-talking microphone array, <i>IEEE Workshop on Applications of Signal Processing to Audio Acoustics</i> , New York, 2001.  |      |                                     |       |                               |                                 |
|   | A5   | Wu, H., Y. Jia, Z. Bao, Direction finding and array calibration based on maximal set of nonredundant cumulants, <i>Proceedings of ICASSP '96</i> .  |      |                                     |       |                               |                                 |
|   |      |   |      |                                     |       |                               |                                 |
| EXAMINER:<br><u>J. J. Jia</u>   |      |   |      | DATE CONSIDERED:<br><u>12/15/06</u> |       |                               |                                 |
| *EXAMINER: Initial if any reference considered, whether or not the citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |      |   |      |                                     |       |                               |                                 |